COMPRESSED AIR MAGAZINE

PUBLISHED BY

Compressed Air Magazine Company

NEW YORK - - - - - LONDON

Business, Editorial and Publication Offices
Phillipsburg, N. J.

INDEX to VOLUME 58

JANUARY-DECEMBER, 1953

(Copyright 1953 by Compressed Air Magazine Company)

COMPRESSED AIR MAGAZINE

INDEX to VOLUME 58

JANUARY-DECEMBER, 1953

A

Aerosol Dispensers—R. J. Nemmers 160
Aggregate for Concrete from River Gravel 255
Lightweight, of Exceptional Fineness 25
Aggregates, Cooling, in India 165
Air-applied Concrete Replaces Mortar in Concrete-block Building 286
Bubbles, De-icing Reservoir with 143
Controls Overweight in Packaging 230
Cylinders Feature of Heavy-duty Billet Shear 173
Ejector for Partly Filled Beer Cans 84
Flotation Recovers Grease from Waste Liquids 55
Gun Sprays New Surfacing Compound 350
Like Duz, Does Everything 114
of Aid in Unloading Boxcar 168
on the Farm 198
operated Pistons Determine Destructive Action of Atomic Bombs 54
Power Helps Run Logging "Donkeys" 52
Power Keeps Firm Competitive 112
Powered Steering Booster for Heavy Automotive Vehicles 287
Slugger Helps to Place Concrete 229
Sprayed Material Protects Building Walls 350
Springs Make All Roads Smooth 51
Tongs for Loading Logs 283
Tools, American, Japanese Pillbox Resists 257
Airplanes, History of—Jane S. Muller 337
Large Contracting Firm Uses 84
Alcan Drilling Rodeo 315
Tunnelers Better Record Again 172
Aqualung, Opening Up a Strange Underwater World —Robert J. Nemmers 221
Archeologists Use Modern Tools—Charlie R. Steen 100
Asbestos, Waste, Salvaged 279
Atomic-bomb Explosion, Scientists Simulate Effects of 252
Australia's Snowy Mountains Project—Allen S. Park 180
Automobile, Keeping Your, on the Road—Robert J. Nemmers 266
Automobiles, General Motors Tests 314
Racing, Use Impactools to Change Tires 352
Autos, Servicing Racing 198
Aviation, Research in Pneumatics for 226
Aviators, High-Altitude, Pressure Suit for 115

B

Bakery Solves Dough-dusting Problem by Pneumatic System 173
Ball Bearings, Father of 165
Bandages, Surgical, Spray-on 229
Beans and Burros—A. A. Richie 166
Bearings Protected Against Lint During Manufacture 286
Beer Cases Make Homes for Fish 255
Bell, Stanley—Cadillac Tank Plant 9
Belt, Commendable Service Record 256
Billet Shear, Heavy-duty, Features Pneumatic Cylinders 173
Blast, Huge Mine 23
Blasting Machine, Grit, Gives Satin Finish 230
Boiler Feed Pump Has Run 100,000 Hours 231
Bolts, Roof, in Delaware Aqueduct—J. C. Pierce 128
Booster, Air-powered, Promotes Safe Driving 287
Bottled Gas—Robert J. Nemmers 330
Boxcar, Compressed Air Aids in Unloading 168
Braking of Trains, Safer 287
Bridge Pier Caissons, Sinking of Precast 316
Broad Street Station Passes—C. H. Vivian 104
Building Leans on Hillside 286
Material, New 257
Bulldozers, Large, Perform Wonders 317
Burros and Beans—A. A. Richie 166
Buses, Pneumatic Springs for 51
Butane Gas—Robert J. Nemmers 330

C

Caboose, the Century-old—Roy E. McFee 72
Cadillac Tank Plant—Stanley Bell 9
Caissons, Precast Pier, Sunk in River 316
Can Inspector, Beer, Robot 84
Canned Food, Maine Puts Up More than Russia 256
Car, Keeping Your, on the Road—Robert J. Nemmers 266
Cards, Greeting 344
Carlton, Newcomb, Name Often Printed 113
Cars, Racing, Use Impactools 352
Casting, Britain's Largest 229
Castings, Porous, Improved Sealant for 20
Caves, Man Returning to 141
Cement Handling, Pneumatic 54
Ceramics Research at Oak Ridge 229
Christmas Cards and Legends 344
Clinchfield Railroad Washes Its Tunnels 323
Clock, Automaton of Nottingham 77
Clocks, Pneumatic, in Paris 313
Coal, Digging 40 Feet of Rock to Get 2 Feet of—Ted Slager 218
Industry in Alberta, Canada, Begun by Smuggler 352
Savers, Britain's 198
Cobalt Celebrates 197
Cobalt's Novel Clan 229
Compressed Air at Work 70
at Work 134
at Work 276
Blows Concrete Quarter Mile Underground 318
Blows Off Home Plate in Texas 251
Cannonballs, Human 115
Controls Rotary Oil-well Rig 255
De-icing Reservoir with 143
Dusts Workers Making Precision Bearings 286
Helps Out Steam 114
Magazine, Birthday of 83
Of Aid in Unloading Boxcar 168
Under the Waves—Robert J. Nemmers 221
Compressor, Booster, in Coal Mine 255
Compact Portable, Aids Utilities 195
Output, Turbochargers Boost 348
Compressors, Portable, in Role of Stationary Units —Richard R. Reinheimer 15
Concrete Blown Quarter Mile Underground 318
Fills New Role 50
Mixer, Continuous 229
Shot in Remote Places by Air Slugger 229
Conner, Veda N.—Pattie and the Apaches 312
Construction, Use of Earth-moving machinery in 317
Control Instruments Combined for Greater Efficiency 288
Conveyor, Vertical 287
Coolant, Carbon-Dioxide 22
Cooling Aggregates in India 165
Copper Mine, Pattie and the Apaches—Veda N. Conner 312
Cryogenic Engineering Laboratory 340

D

Delaware Aqueduct Roof, Pinning Up—J. C. Pierce 128
Diamond Hunt, Great 113
Die, Tungsten-carbide Lined, Commendable Record 256
Dispensers, Aerosol—R. J. Nemmers 160
Dressing, Surgical, Spray-on 229
Drill, Seeking New Ways to 85
Drillers, Kemano Rodeo, Compete for Cash 315
Drilling Record, Alcan, Bettered Again 172
Record in Niagara Falls Tunnel—H. R. Rice 169
Dyeing of Fabrics Kept Uniform by Pneumatic Roll Loading—W. H. Ridley 272

E

Earth-moving Machinery, Large, Perform Wonders 317
Machines Made Safe and Comfortable 54
Edison, Thomas A.—Tales of 317
Ejector, Air, for Partly Filled Beer Cans 84
Electronic Eyes for Industry 139
Elevators, Passenger, History of 347
Engineering Education 351
Engineers, Premium on 83
Everest Expedition, Mount, Oxygen Equipment for 258

F

Fans, Ventilating, Mines Need Big 258
Farm, Air on the 198
Fire, Taking the Terror Out of—Robert James 278
Fish, Beer Cases Make Homes for 255
Flapjack Derby, Unique 22
Fliers, Pressure Suit for High 115
Flotation, Air, Recovers Grease from Waste Liquids 55

Fluid Power Association, National, Organized 228
Forging Hammer of New Type 12
Hammer of New Type 21
Hammers, Pneumatic, Eleven in Line 54
Fox Nailer 25
Freight Yards, Nashville's, Shifting—E. S. Williams 48

G

Gamma-ray Generator, Pneumatic Tubes Shift Radioactive Capsules in 252
Gas, Liquefied Petroleum, the Story of—Robert J. Nemmers ..330
Pipe Line, Record, Visualized 54
Supply, Stretching the St. Louis—Lee M. Liberman 34
System, Natural, Growth of a—C. H. Vivian 2
Gauge, Steel-strip Width 24
Geiger Counter Spots Jam in Tube System 199
General Electric Company's 75th Anniversary 317
Germany's Comeback 285
Glass-lined Steel Smokestacks 288
Government Building, Nation's Oldest—Amy P. Hurt 186
Gravel, River, Processed to Make Concrete Aggregate 255
Grit-blasting Machine Gives Satin Finish 230
Gun, Air, Sprays New Surfacing Compound 350

H

Hagan Corporation, Start was Romantic 114
Hair, Facts About 165
Hammer, Forging, of New Type 12
Forging, of New Type 21
Hammers, Pneumatic Forging, Eleven in Line 54
Helicopters, Geologists Take to 84
Highway Problem, the 21
System, U. S., Revised by Thomas H. MacDonald ..228
Holmgren, Virginia—*On the Ferrocarril of Peru* 78
Home Plate, in Texas They Blow Off 251
Hospital, Sunbury's Modern—C. H. Vivian 40
Hurt, Amy P.—Nation's Oldest Government Building 186
Hydroelectric Power at Niagara, More Canadian, Part 1—H. R. Rice 210
Power at Niagara, More Canadian, Part 2—H. R. Rice 244
Project, Snowy Mountains—Allen S. Park 180

I

Impacter, Chambersburg, New Type Forging Hammer 12
Chambersburg, New Type Forging Hammer 21
Impactool, Striking Savings Made with Large 242
Impactools Cut Tank Erection Costs 275
Speed Tire Changing on Racing Cars 352
Impregnating Material for Porous Castings 20
India Builds for Self-support—C. H. Vivian 122
Instruments Combined for Greater Efficiency 288

J

James, Robert—Giving Things the Shakes 131
—Taking the Terror Out of Fire 278
Johnson, W. N.—Guardian Angels of the Submarines 17
Joneses, Big Day for 198

K

Kitty Hawk Jubilee—Jane S. Muller 337
Kutnewsky, Fremont—Navajo Comeback 80
Kyrene Power Plant, Open-air—Robert J. Nemmers 44

L

Laboratory, Research, Old 85
Lawn Mower, Robot 143
Lead Mine, 64-year Old, Closes 352
Leaks in Pipe Lines Prove Costly 352
Leenders, Andre—Tin Mine in the Congo 306
Liberman, Lee M.—Stretching the St. Louis Gas Supply 34
Logging "Donkeys," Air Power Helps Run 52
Low-temperature Engineering 340
LP Gas, the Story of—Robert J. Nemmers 330
Lumber Chilled Before Cutting 251

M

MacDonald, Thomas H., Revised Our Highway System 228
McFee, Roy E.—The Century-old Caboose 72
Machine-Tool Plants in Germany Best Equipped 285
Magnets, Doing Things with—R. J. Nemmers 136
More About 286
Maine Packs More Canned Food than Russia 256
Manganese from Waste Slag 199
Mapping the Sea Bottom 112
Mater, Jean—Push-button Sawmills 68
Material, Choosing Right 111
Maxon, Glenway W., Moles Will Honor 349
Meiggs, Henry, Colossus of Andean Railroading 78
Mine, Blast, Huge 23
Copper, Santa Rita—Veda N. Conner 312
Roof Supported by New Norwegian Method 352
Shaft Still Going Down 113
Sixty Years Old Closes 352
Tin, in the Congo—Andre Leenders 306
Mineral Kingdom, The Spruce Pine, Part 1—C. H. Vivian 152
The Spruce Pine, Part 2—C. H. Vivian 187
Minerals, the Quest for 141
Mining Development 111
Moles Will Honor Steers and Maxon 349
Morrison, Mrs. Ann D., Honored by Coast College 172
Mortar Replaced by Air-applied Concrete in Concrete-block Building 286
Mosaics, Famous, Restored 113
Muller, Jane S.—Kitty Hawk Jubilee 337

N

Nailer, Fox 25
Nashville's Freight Yards, Shifting—E. S. Williams 48
Natural-Gas System, Growth of a—C. H. Vivian 2
Navajo Comeback—Fremont Kutnewsky 80
Nemmers, Robert J.—Compressed Air Under the Waves 221
—Doing Things with Magnets 136
—Keeping Your Car on the Road 266
—Open-air Power Station 44
—Pressure Packaging 160
—The Story of LP Gas 330
Niagara, More Canadian Kilowatts at, Part 1—H. R. Rice 210
More Canadian Kilowatts at, Part 2—H. R. Rice 244
Preserving 197

O

Oil-well Yield Increased by Use of Soda Water 22
Otis, E. G., Devised Elevators 347
Oxygen Equipment for the Mount Everest Expedition 258

P

Pacella Brothers, Rise of 165
Packaging, Pressure—R. J. Nemmers 160
Palace of the Governors—Amy P. Hurt 186
Panama Canal Overhaul 165
Paper Mill Saves Water by Use of Vacuumstat 350
Rolls, Inflatable Shaft for 318
Park, Allen S.—Snowy Mountains Project 180
Patent Office, British 165
Pattie and the Apaches—Veda N. Conner 312
Pay More for Cook Than Scientist 113
Petroleum, Drilling for, in Granite 143
Pier Caissons, Precast, Sunk in River 316
Pierce, J. C.—Pinning Up an Aqueduct Roof 128
—Pneumatic Switch Cleaner 280
—Tire Plant in the Country 94
Pillbox, Jap, Resists American Air Tools 257
Pipe Lines, Leaks in, Prove Costly 352
Plastics, Vacuum Machines Make Short Work of Molding 144
Plowman, Modern 285
Pneumatic Cement Handling 54
Clocks in Paris 313
Cylinders Feature of Heavy-duty Billet Shear 173
Forging Hammers, Eleven in Line 54
Loading Insures Accurate Dyeing of Fabrics—W. H. Ridley 272
Pistons Determine Destructive Action of Atomic Bombs 54
Press Develops 70,000 Pounds Pressure 284
Springs for Buses 51
Switch Cleaner—J. C. Pierce 280
System Solves Dough-dusting Problem 173
Tube Generator 24
Tire and Rim Assembler 188
Tools, American, Jap Pillbox Resists 257
Tube System, Geiger Counter Spots Jam in 199
Tubes Shift Radioactive Capsules in Gamma-ray Generator 252
Tubes Transfer Steel Samples 255
Pneumatics in the Sky 226
Pneumatron Controls Overweight in Packaging 230
Portable Compressor, Compact, Aids Utilities 195
Compressors in Role of Stationary Units—Richard R. Reinheimer 15

Potatoes, Mashed, Powdered 85
Power Station, Open-air Steam—Robert J. Nemmers 44
Water and Wind, Save Coal in Britain 198
Press, Pneumatic, Develops 70,000 Pounds Pressure 284
Pressure Drop Spots Break in Paper Web 350
Suit for High Fliers 115
Propane gas—Robert J. Nemmers 330
Prospector's Reminiscences—A. A. Richie 166
Pump, Boiler Feed, Has Run 100,000 Hours 231
Testing a High-pressure—G. B. Richardson 62

R

Railcars are Popular 144
Railroad, Andean, Highest Standard-gauge—Virginia Holmgren 78
Relocation, Union Pacific 112
Station, Broad Street, Passes—C. H. Vivian 104
Tunnels Scoured 286
Tunnels Washed 323
Refrigerating Lumber Facilitates Sawing 231
Refrigeration System, Outdoor Water-vapor—L. B. Walker 309
Reinheimer, Richard R.—Portable Compressors in Role of Stationary Units 15
Research Laboratory, Old 85
Respirators, Ancients Used 85
Rhodes Centenary 171
Rice, H. R.—More Canadian Kilowatts at Niagara, Part 1 210
—More Canadian Kilowatts at Niagara, Part 2 244
—Tunnelers Make Record at Niagara Falls 169
Richardson, G. B.—Testing a High-pressure Pump 62
Richie, A. A.—Beans and Burros 166
Ridley, W. H.—Air Makes a Blue Shirt Blue 272
Roads, Rubber, Near 198
U. S., Revised by Thomas H. MacDonald 228
Rodeo Drillers, Kemano, Compete for Cash 315
Roeblings, Romance of 53
Roll Loading, Pneumatic, Insures Accurate Dyeing of Fabrics —W. H. Ridley 272
Roof Bolting Section of Delaware Aqueduct—J. C. Pierce 128
Mine, Supported by "Sewing" Instead of Bolting 352
Rubber Roads Near 198
Rust Preventive 20

S

St. Louis Gas Supply, Stretching the—Lee M. Liberman 34
Safety Device Shows How to Lift Heavy Loads 23
Salmon, Clearing Way for 54
Salvage Vessels, Submarine—W. N. Johnson 17
Samson, the Safety Demonstrator 23
Santa Rita Open-pit Copper Mine—Veda N. Conner 312
Sardine Pack, Maine 256
Sawmill Chills Wood Before Cutting 231
Sawmills, Push-button—Jean Mater 68
Scrap, Detecting 'Doctored' Steel 282
Sea Bottom, Mapping the 142
Sealant for Porous Castings 20
Service Stations Keep Your Car on the Road —Robert J. Nemmers 266
Shaft, Inflatable, for Paper Rolls 318
Shelters, Underground 141
Shock Absorber, Simple 22
Slag, Waste, Manganese from 199
Slager, Ted—Digging 40 Feet of Rock to Get 2 Feet of Coal 218
Smokestacks, Glass-lined Steel 288
Snow Blower for Railroad Switches—J. C. Pierce 280
Snowy Mountains Project—Allen S. Park 180
Sockeye, Return of the 254
Soda Water Increases Oil-well Yield 22
Springs, Pneumatic, for Buses 51
Spruce Pine Mineral Kingdom Part 1—C. H. Vivian 152
Mineral Kingdom, Part 2—C. H. Vivian 187
Starters, Self-contained, for Jet Planes 55
Steel Scrap, Detecting 'Doctored' 282
Steen, Charlie R.—Delving into the Past with Modern Tools 100
Steering Booster Promotes Safe Driving 287
Steers, J. Rich, Moles Will Honor 349
Submarines, Guardian Angels of—W. N. Johnson 17
Subway, Stockholm Opens New 22
Sunbury's Modern Hospital—C. H. Vivian 40
Surfacing Compound for Walls Sprayed by Airgun 350
Surveying with Helicopters 84

T

Tank Erection Costs Cut by Impactools 275
Plant, Cadillac—Stanley Bell 9
Television Catches Thieves 352
Uses for in Industry 139
Testing Ground for Automobiles, General Motors 314
Tide Generator, Pneumatic 24
Tie Tamper, Multiple—C. H. Vivian 236
Tillage, Deep, with Earth-moving Machinery 285
Timber, Felled by Storm, Salvaged for Pit Props 229
Tin Mine in the Congo—Andre Leenders 306
Tire and Rim Assembler, Pneumatic 288
Plant in the Country—J. C. Pierce 94
Tires on Racing Cars Changed with Impactools 352
Tongs, Air, for Loading Logs 283
Train, Trackless 284
Trains, Safer Braking of 287
Tunnel, Irrigation, Record 84
Tecolote, Held Up by Heavy Flow of Water 286
Tunnelers, Alcan, Better Record Again 172
Make Record at Niagara Falls—H. R. Rice 169
Tunneling, Difficult, in England 77
Tunnels, Clinchfield Railroad Washes Its 323
Turbochargers Boost Compressor Output 348
Turnpike, West Virginia, Joins the Parade—C. H. Vivian 296

U

Union Pacific Changes 42 Miles of Line 112
UN Teaching Backward Peoples 142

V

Vacuum Machines Make Short Work of Molding Plastics 144
Vacuumstat Spots Break in Paper Web 350
Valve, "Air-bleed," for Train Air Brakes 287
Ventilating Fan, Mines Need Big 258
Vibration Benefits Castings 256
Vibrators, Uses of—Robert James 131
Video Catches Thieves 352
Vivian, C. H.—Broad Street Station Passes 104
—Growth of a Natural-gas System 2
—India Builds for Self-Support 122
—Making Beds for Iron Horses 236
—Sunbury's Modern Hospital 40
—The Spruce Pine Mineral Kingdom, Part 1 152
—The Spruce Pine Mineral Kingdom, Part 2 187
—West Virginia Mountain Boulevard 296

W

Walker, L. B.—Outdoor Water-vapor Refrigeration System 309
Water-vapor Refrigeration System, Outdoor—L. B. Walker 309
West Virginia Joins the Turnpike Parade with a Mountain Boulevard—C. H. Vivian 296
Williams, E. S.—Shifting Nashville's Freight Yards 48
Worker Output 351
Wright Brothers 50th Anniversary—Jane S. Muller 337

January ..... Pages 2— 32 inclusive
February ..... Pages 34— 60 inclusive
March ..... Pages 62— 93 inclusive
April ..... Pages 94—121 inclusive
May ..... Pages 122—151 inclusive
June ..... Pages 152—178 inclusive
July ..... Pages 180—208 inclusive
August ..... Pages 210—235 inclusive
September ..... Pages 236—264 inclusive
October ..... Pages 266—294 inclusive
November ..... Pages 296—328 inclusive
December ..... Pages 330—357 inclusive